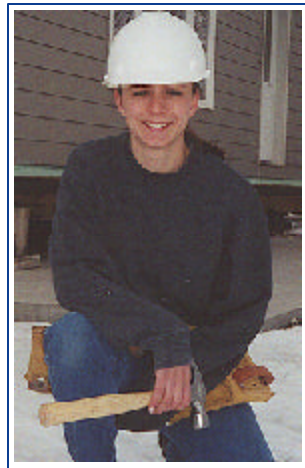


# Montana Job Projections 1998 - 2008

**Wage and Training Information Included !**



## **Have questions? Contact:**

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# Job Projections for Montana Occupations, 1998 - 2008

## Occupations with Job Opportunities

The Montana Department of Labor and Industry's Research and Analysis Bureau develops occupational job projections to help people anticipate which occupations are likely to produce jobs in the future. Projections featured in this pamphlet were made to the year 2008 based on data from 1998 and previous years. Some job openings will be generated by industry growth. The rest will result from replacing workers who leave already existing jobs for various reasons. Job numbers are estimates, and all information applies to the state as a whole.

Occupations shown in this pamphlet are organized by education and training\* required—and then ranked according to total annual openings expected. From left to right, the information includes:

- **Occupation:** The name of an occupation.
- **1998 Jobs:** Jobs existing in 1998.
- **2008 Jobs:** Jobs estimated for 2008.
- **Annual Job Openings:** Jobs projected to be added each year from *both* industry growth and replacements.
- **Median Hourly Wage:** The wage rate that divides wage distribution into 2 equal parts, with half the wages falling above the median rate and half falling below. Taken from the Research and Analysis Bureau's 1998 Occupational Employment Statistics program survey of occupations. While job projections include *both* wage and salary and self-employment jobs, hourly wages shown were computed using *only* wage and salary jobs. When wage information is not available for a specific occupation, its hourly wage is listed as "NA." Annual wage information is available for some occupations, and may be found in the bureau's full-sized projections publication or on the bureau's website at <http://rad.dli.state.mt.us/>.

\* *Training may include training acquired in a school, work, apprenticeship, military, institutional or vocational environment. See chart—along with education and training categories—on reverse side of this pamphlet.*

**More complete information** for these and many other occupations can be found in the *Job Projections for Montana's Industries and Occupations, 1998 - 2008* publication, available on request. More complete Montana projections information—with a link to projections for other states and the nation as a whole—is also available on the bureau's website at <http://rad.dli.state.mt.us/>.

## Jobs Requiring Short-Term On-the-Job Training

Occupation	1998 Jobs	2008 Jobs	Annual Job Openings	Median Hourly Wage
Salespersons, Retail	16,867	19,977	883	\$8.64
Cashiers	10,725	13,571	753	\$6.79
Waiters & Waitresses	8,098	9,159	552	\$5.73
Combined Food Preparation & Service Workers	8,170	9,141	547	\$5.86
General Office Clerks	10,927	13,167	527	\$8.70
Truck Drivers, Heavy or Tractor-Trailer	8,633	10,367	297	\$13.54
Child Care Workers	9,255	11,032	269	\$6.12
Janitors/Cleaners, Except Maids/Housekeeping Cleaners	9,034	9,760	269	\$7.65
Bartenders	5,491	5,773	263	\$6.37
Food Preparation Workers	3,669	4,030	238	\$6.45
Truck Drivers, Light, Including Delivery & Route Workers	5,517	6,779	205	\$9.51
Nursing Aides, Orderlies & Attendants	4,952	6,140	188	\$7.45
Laborers, Landscaping & Groundskeeping	2,637	3,649	180	\$7.94
Maids & Housekeeping Cleaners	5,119	5,962	179	\$6.26
Counter & Rental Clerks	2,010	2,883	174	\$6.77
Receptionists & Information Clerks	3,702	4,660	167	\$7.66
Hand Packers & Packagers	2,131	2,879	128	\$6.86
Personal & Home Care Aides	2,028	2,748	125	\$6.22
Guards & Watch Guards	1,860	2,599	120	\$7.46
Counter Attendants: Lunchroom/Coffee Shop/Cafeteria	1,257	1,380	116	\$6.33
Amusement & Recreation Attendants	1,602	2,443	113	\$6.14

# Job Projections for Montana Occupations, 1998 - 2008

## Jobs Requiring Short-Term On-the-Job Training, Continued

Occupation	1998 Jobs	2008 Jobs	Annual Job Openings	Median Hourly Wage
Tellers	1,896	2,065	98	\$7.46
Cooks, Fast Food	2,172	2,565	96	\$5.65
Home Health Aides	1,919	2,574	93	\$7.51
Farmworkers, Farm & Ranch Animals	2,964	1,854	91	NA
Teacher Aides, Paraprofessional	2,708	3,266	87	\$7.97
Farmworkers, Food & Fiber Crops	2,662	1,672	82	NA
Hotel Desk Clerks	1,497	1,708	78	\$6.24
Vehicle Washers & Equipment Cleaners	1,323	1,661	76	\$6.60
Fallers & Buckers	1,983	2,169	69	\$17.56
Highway Maintenance Workers	1,883	2,087	65	\$13.17
Cooks, Short Order	1,185	1,463	59	\$6.48
Helpers, Carpenters & Related Workers	758	991	58	\$9.34
Teacher Aides & Educational Assistants, Clerical	1,729	2,086	56	\$7.25
Helpers, Mechanics & Repairers	800	984	54	\$8.54
Stock Clerks, Sales Floor	3,558	3,560	54	\$7.37
Shipping, Receiving & Traffic Clerks	2,147	2,303	52	\$11.35
Billing, Cost & Rate Clerks	1,186	1,448	50	\$9.50
Assemblers/Fabricators, Except Machinery/Precision	1,573	1,783	49	\$8.30
Stock Clerks: Stockroom, Warehouse or Storage Yard	1,616	1,855	48	\$8.89
Dining Room & Cafeteria Attendants & Bartender Helpers	1,161	1,270	46	\$5.75
Order Clerks: Materials, Merchandise & Service	861	1,032	38	\$9.06
Library Assistants & Bookmobile Drivers	553	647	36	\$7.54
Service Station Attendants	569	659	34	\$7.26
Bill & Account Collectors	604	776	33	\$10.82
Bus Drivers, School	1,760	1,706	32	\$9.43
Adjustment Clerks	705	966	31	\$9.10
Food Servers, Outside	285	355	31	\$6.63
Taxi Drivers & Chauffeurs	791	971	31	\$6.49
Guides	455	678	30	\$7.91
Postal Mail Carriers	892	941	30	\$15.89
Hosts & Hostesses: Restaurant/Lounge/Coffee Shop	603	712	29	\$5.98
Interviewing Clerks, Except Personnel & Social Welfare	401	549	28	\$10.13
Tire Repairers & Changers	498	554	28	\$8.61
Driver/Sales Workers	1,225	1,252	27	\$9.19
Order Fillers, Wholesale & Retail Sales	557	700	27	\$9.15

## Jobs Requiring Moderate-Term On-the-Job Training

Occupation	1998 Jobs	2008 Jobs	Annual Job Openings	Median Hourly Wage
Bookkeeping, Accounting & Auditing Clerks	9,265	9,764	223	\$9.51
Sales Representatives, Except Retail/Scientific/Related	3,978	4,570	156	\$16.25
Secretaries, Except Legal or Medical	7,610	7,689	132	\$9.01
Human Services Workers	1,490	2,380	128	\$8.04
Telemarketers/Door-to-Door Sales/Street Vendors, Other	2,519	3,106	124	\$8.11
Painters & Paperhangers, Construction & Maintenance	2,819	3,321	122	\$14.07
Medical Assistants	926	1,432	74	\$8.79
Instructors & Coaches, Sports & Physical Training	1,898	2,390	69	\$9.37
Excavating & Loading Machine Operators	1,330	1,602	52	\$14.66
Roofers	924	1,109	51	\$11.36
Sales Agents, Selected Business Services	865	1,170	49	\$13.37
Salespersons, Parts	1,198	1,322	46	\$10.94
Laundry & Dry-Cleaning Machine Operators & Tenders	1,084	1,250	44	\$6.99
Bakers, Bread & Pastry	908	1,064	40	\$8.09
Dental Assistants	753	1,033	40	\$9.69
Operating Engineers	1,352	1,481	37	\$14.73
Grader, Bulldozer & Scraper Operators	914	1,202	36	\$14.99
Sales Agents, Advertising	789	930	36	\$12.85
Sales Reps, Scientific & Related, Except Retail	819	950	33	\$20.25
Demonstrators & Promoters	490	670	31	\$6.60
Packaging & Filling Machine Operators & Tenders	692	777	27	\$8.90
Sheet Metal Workers	440	580	25	\$15.60

# Job Projections for Montana Occupations, 1998 - 2008

## Jobs Requiring Long-Term On-the-Job Training

Occupation	1998 Jobs	2008 Jobs	Annual Job Openings	Median Hourly Wage
Carpenters	11,813	13,911	527	\$12.90
Farmers/Ranchers: Self-Employed	25,641	25,471	397	NA
Cooks, Restaurant	3,674	4,347	163	\$7.29
Maintenance Repairers, General Utility	4,236	4,810	152	\$9.90
Automotive Body & Related Repairers	1,755	2,023	78	\$11.83
Electricians	2,132	2,471	78	\$17.73
Correction Officers & Jailers	883	1,200	56	NA
Plumbers, Pipefitters & Steamfitters	1,681	1,985	51	\$17.35
Mobile Heavy Equipment Mechanics, Except Engines	981	1,167	45	\$15.44
Police Patrol Officers	800	1,036	45	\$14.01
Bus & Truck Mechanics & Diesel Engine Specialists	1,237	1,405	44	\$13.87
Cooks, Institution or Cafeteria	1,532	1,512	40	\$7.99
Welders & Cutters	1,111	1,218	39	\$13.81
Cabinetmakers & Bench Carpenters	1,038	1,293	38	\$10.40
Sheriffs & Deputy Sheriffs	727	986	33	\$15.08
Telephone & Cable TV Line Installers & Repairers	353	574	33	\$16.18
Heating/Air Conditioning/Refrig Mechanics & Installers	657	830	29	\$14.39
Firefighters	909	960	27	\$15.00

## Jobs Requiring Work Experience in Related Occupation

Occupation	1998 Jobs	2008 Jobs	Annual Job Openings	Median Hourly Wage
First-Line Supervisors: Sales & Related	16,275	19,274	513	\$14.45
First-Line Supervisors: Construction/Extractive	4,823	5,669	213	\$17.50
First-Line Supervisors: Clerical/Administrative	3,870	4,791	179	\$13.71
Food Service & Lodging Managers	2,912	3,329	93	\$13.24
Instructors, Nonvocational Education	2,770	3,222	74	\$13.37
First-Line Supervisors: Mechanics/Installers	1,386	1,551	58	\$18.82
Locomotive Engineers	688	688	41	\$25.22
First-Line Supervisors: Production/Operating	1,057	1,141	38	\$16.38
Compliance Officers & Inspectors, Except Construction	918	1,009	26	NA
New Accounts Clerks	420	536	26	\$8.28

## Jobs Requiring Postsecondary Vocational Training

Occupation	1998 Jobs	2008 Jobs	Annual Job Openings	Median Hourly Wage
Automotive Mechanics	4,918	5,811	211	\$12.14
Hairdressers, Hairstylists & Cosmetologists	4,336	4,727	151	\$7.02
Licensed Practical Nurses	2,384	2,796	92	\$10.95
Sales Agents, Real Estate	2,493	2,867	87	\$18.54
Emergency Medical Technicians	686	894	38	\$9.13
Central Office & PBX Installers & Repairers	283	485	29	\$19.97
Drafters	638	746	26	\$13.47
Medical Secretaries	882	999	26	\$9.49

## Jobs Requiring Associate Degree

Occupation	1998 Jobs	2008 Jobs	Annual Job Openings	Median Hourly Wage
Registered Nurses	6,850	8,146	243	\$16.78
Computer Support Specialists	1,011	1,887	94	\$14.99
Paralegal Personnel	600	911	36	\$13.57
Dental Hygienists	485	671	30	\$25.91
Medical Records Technicians	425	588	26	\$9.45
Electrical/Electronic Engineering Technicians/Technologists	638	741	23	\$14.31
Radiologic Technologists	629	748	21	\$15.31

# Job Projections for Montana Occupations, 1998 - 2008

## Jobs Requiring Bachelor's Degree

Occupation	1998 Jobs	2008 Jobs	Annual Job Openings	Median Hourly Wage
Teachers, Secondary School	4,687	4,687	201	NA
Teachers, Elementary School	6,940	6,969	163	NA
Accountants & Auditors	3,244	3,673	93	\$18.02
Sales Agents & Placers, Insurance	2,341	2,632	82	\$17.28
Systems Analysts, Electronic Data Processing	798	1,537	79	\$19.58
Social Workers, Except Medical & Psychiatric	1,735	2,229	72	\$12.47
Teachers, Preschool	1,167	1,620	70	\$8.68
Residential Counselors	1,079	1,452	62	\$8.51
Recreation Workers	1,043	1,295	53	\$8.65
Writers & Editors	1,178	1,383	52	\$14.00
Computer Programmers	771	994	46	\$19.10
Designers, Except Interior Designers	1,345	1,607	46	\$9.10
Loan Officers & Counselors	937	1,159	43	\$17.33
Civil Engineers, Including Traffic	930	1,126	38	\$22.23
Public Relations Specialists & Publicity Writers	795	953	37	\$14.09
Sales Agents: Securities/Commodities/Financial Services	947	1,245	37	\$30.18
Teachers, Special Education	1,257	1,516	37	NA
Wholesale & Retail Buyers, Except Farm Products	900	999	32	\$12.77
Personnel, Training & Labor Relations Specialists	879	955	31	\$15.96
Foresters & Conservation Scientists	957	967	26	\$20.30
Construction Managers	517	653	23	\$21.26
Property & Real Estate Managers & Administrators	684	809	22	\$10.66
Directors, Religious Activities & Education	652	764	21	\$7.72
Reporters & Correspondents	453	509	20	\$12.37

## Jobs Requiring Work Experience Plus Bachelor's or Higher Degree

Occupation	1998 Jobs	2008 Jobs	Annual Job Openings	Median Hourly Wage
General Managers & Top Executives	6,906	8,410	271	\$25.93
Education Administrators	1,973	2,116	64	\$26.34
Financial Managers	1,476	1,803	56	\$24.10
Artists & Related Workers	1,295	1,525	50	\$13.62
Management Analysts	863	1,128	34	\$28.00
Marketing, Advertising & Public Relations Managers	768	965	31	\$22.81
Medicine & Health Services Managers	725	888	29	\$21.15
Engineering, Mathematical & Natural Sciences Managers	485	687	28	\$28.58

## Jobs Requiring Master's Degree

Occupation	1998 Jobs	2008 Jobs	Annual Job Openings	Median Hourly Wage
Social Workers, Medical & Psychiatric	839	1,216	49	\$14.04
Psychologists	1,170	1,355	41	\$19.14
Physical Therapists	728	917	30	\$24.40
Vocational & Educational Counselors	705	830	29	\$14.21
Speech-Language Pathologists & Audiologists	434	560	20	\$18.55

## Jobs Requiring Doctoral Degree

Occupation	1998 Jobs	2008 Jobs	Annual Job Openings	Median Hourly Wage
Biological Scientists	945	1,234	49	\$21.14
English Language & Literature Teachers, Postsecondary	434	543	23	NA

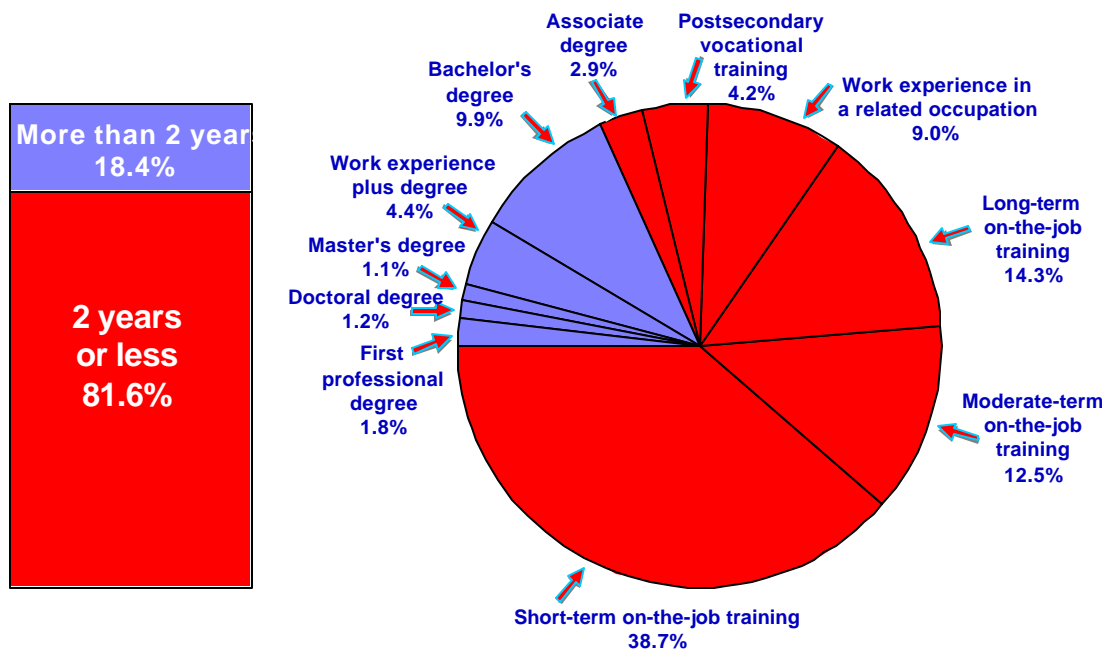
## Jobs Requiring Professional Degree

Occupation	1998 Jobs	2008 Jobs	Annual Job Openings	Median Hourly Wage
Lawyers	3,555	4,140	98	\$27.46
Physicians and Surgeons	1,838	2,279	73	\$53.91
Dentists	1,161	1,339	42	\$29.81
Pharmacists	763	793	24	\$23.86
Veterinarians & Veterinary Inspectors	527	643	23	\$21.77



# Training Required for Montana Jobs

- Based on 1998 Job Estimates -



Source: Research & Analysis Bureau, Montana Department of Labor & Industry

## Education and Training Categories

**First professional degree:** Completion of the academic program usually requires at least 6 years of full-time equivalent academic study, including college study prior to entering the professional degree program.

**Doctoral degree:** Completion of the degree program usually requires at least 3 years of full-time equivalent academic work beyond the bachelor's degree.

**Master's degree:** Completion of the degree program usually requires 1 or 2 years of full-time equivalent study beyond the bachelor's degree.

**Work experience, plus a bachelor's or higher degree:** Most occupations in this category are managerial occupations that require experience in a related nonmanagerial position.

**Bachelor's degree:** Completion of the degree program generally requires at least 4 years but not more than 5 years of full-time equivalent academic work.

**Associate degree:** Completion of the degree program usually requires at least 2 years of full-time equivalent academic study.

**Postsecondary vocational training:** Some programs last only a few weeks while others may last more than a year. In some occupations, a license is needed that requires passing an examination after completion of the training.

**Work experience in a related occupation:** Some occupations requiring work experience are supervisory or managerial occupations.

**Long-term on-the-job training:** This category includes occupations that generally require more than 12 months of on-the-job training or combined work experience and formal classroom instruction for workers to develop the skills needed for average job performance. This category includes formal and informal apprenticeships that may last up to 4 years and short-term intensive employer-sponsored training that workers must successfully complete. Individuals undergoing training are generally considered to be employed in the occupation. This category includes occupations in which workers may gain experience in nonwork activities, such as professional athletes who gain experience through participation in athletic programs in academic institutions.

**Moderate-term on-the-job training:** This category includes occupations in which workers can develop the skills needed for average job performance after 1 to 12 months of combined on-the-job experience and informal training.

**Short-term on-the-job training:** This category covers occupations in which workers can develop the skills needed for average job performance after a short demonstration or up to 1 month of on-the-job experience or instruction.